

controllable by an external apparatus based on a TCP/IP protocol, the unauthorized access avoiding program for an intelligent interconnecting device comprising:

5 a first step of causing the intelligent interconnecting device to judge whether or not a first access to the intelligent interconnecting device from outside has occurred;

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10 a second step of causing the intelligent interconnecting device to carry out authentication processing by using a user identifier and a password based on the TCP/IP protocol when it is judged in said first step that the first access from outside has
15 occurred;

 a third step of causing the intelligent interconnecting device to judge after the authentication processing in said second step whether or not authentication is given;

20 a fourth step of determining an authenticated external apparatus as an apparatus to be responded to thereafter by the intelligent interconnecting device and causing the intelligent interconnecting device to judge whether or not this access is the
25 first access, when it is judged in said third step

that the authentication is given;

a fifth step of causing the intelligent interconnecting device to extract and store a source IP address included in a packet which is received from the external apparatus in the authentication processing when this access of the external apparatus is judged to be the first access in said fourth step;

a sixth step of determining the external apparatus as an apparatus not to be responded to thereafter by the intelligent interconnecting device when the external apparatus is judged not to be authenticated in said third step;

a seventh step of causing the intelligent interconnecting device to judge whether or not the source IP address of the external apparatus giving the access thereto is identical with the stored source IP address when this access is judged not to be the first access in said first step;

an eighth step of causing the intelligent interconnecting device to judge whether or not the source IP address is within a predetermined valid period when the source IP address of the external apparatus is judged to be identical with the stored source IP address in said seventh step;

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a ninth step of determining the external
apparatus having the source IP address which is
judged to be within the predetermined valid period
as an apparatus to be responded to thereafter by
5 the intelligent interconnecting device and causing
the intelligent interconnecting device to execute
the steps beginning from said second step, when the
source IP address of the external apparatus is
judged to be within the predetermined valid period
10 in said eighth step; and

a tenth step of determining the external
apparatus whose source IP address is judged to be
nonidentical or is judged to be not within the
predetermined valid period as an apparatus not to
15 be responded to thereafter by the intelligent
interconnecting device and causing the intelligent
interconnecting device to notify a predetermined
managing computer of the source IP address of the
external apparatus which is determined as the
20 apparatus not to be responded to, when the source
IP address of the external apparatus is judged to
be nonidentical with the stored source IP address
in said seventh step or is judged to be not within
the predetermined valid period in said eighth step.